

We claim:

1. A method of increasing the total oil content in a plant
5 organism or a tissue, organ, part, cell or propagation
material thereof, comprising
 - a) the transgenic expression of a polypeptide SEQ ID NO: 2
10 from yeast in said plant organism or in a tissue, organ,
part, cell or propagation material thereof, and
 - b) the selection of plant organisms in which - in contrast
15 to or comparison with the starting organism - the total
oil content in said plant organism or in a tissue, organ,
part, cell or propagation material thereof is increased.
2. A method as claimed in claim 1, wherein the polypeptide from
yeast is described by
 - 20 a) a sequence with the SEQ ID NO: 2
 - b) a functional equivalent of a) with an identity of at
least 60% of a sequence with SEQ ID NO: 2.
- 25 3. A method as claimed in claim 1 or 2, wherein the plant is
an oil crop.
4. A method as claimed in claim 1 or 2, wherein the total oil
content in the seed of a plant is increased.
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5. A transgenic expression cassette comprising, under the
control of a promoter which is functional in a plant organism
or a tissue, organ, part or cell thereof, a nucleic acid
sequence SEQ ID NO: 1.
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6. A transgenic expression cassette as claimed in claim 5,
wherein the nucleic acid sequence is described by
 - a) a sequence with the SEQ ID NO: 1
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 - b) a sequence derived from a sequence with the SEQ ID NO: 1,
in accordance with the degeneracy of the genetic code
 - c) a sequence which has at least 60% identity with the
45 sequence with the SEQ ID NO: 1.

Sequ.

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7. A transgenic expression cassette as claimed in claim 5 or 6,
wherein the promoter is a seed-specific promotor.
8. A transgenic vector comprising an expression cassette as
5 claimed in any of claims 5 to 7.
9. A transgenic plant organism or tissue, organ, part, cell
or propagation material thereof, comprising a polypeptide
as defined in claim 2 or an expression cassette as claimed
10 in any of claims 5 to 7 or a vector as claimed in claim 8.
10. A transgenic plant organism as claimed in claim 9, wherein
the plant organism is selected from the group of the oil
crops consisting of *Borvago officinalis*, *Brassica campestris*,
15 *Brassica napus*, *Brassica rapa*, *Cannabis sativa*, *Carthamus*
tinctorius, *Cocos nucifera*, *Crambe abyssinica*, *Cuphea*
species, *Elaeis guinensis*, *Elaeis oleifera*, *Glycine max*,
Gossypium hirsutum, *Gossypium barbadense*, *Gossypium*
herbaceum, *Helianthus annuus*, *Linum usitatissimum*, *Oenothera*
20 *biennis*, *Olea europaea*, *Oryza sativa*, *Ricinus communis*,
Sesamum indicum, *Triticum species*, *Zea mays*, walnut and
almond.
11. The use of a transgenic plant organism or tissue, organ,
25 part, cell or propagation material thereof as claimed in
claim 9 or 10 for the production of oils, fats, free fatty
acids or derivatives of the above.

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